|   | In | de | X | of | CI | aiı | ns | ; |
|---|----|----|---|----|----|-----|----|---|
| I |    |    |   |    |    |     |    | l |

Application No.

Applicant(s)

09/904,064 Examiner

GREENOUGH, RICHARD C.

Art Unit

Dennis Ruhl

3629

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N Interference

Appeal 0 Objected

|  |  | L.             | <u> </u>   |  |  |  | J        |              | L  | L        |  |  |
|--|--|----------------|------------|--|--|--|----------|--------------|--|----------|--|--|
|  |  | Det            |            |  |  |  |          |              |  |          |  |  |
| Cla  | im   | _              | _          |  | _  | Dat  | e        | ,            |  |          |  |  |
| Final  | Original   | かんやりしてして       |            |  |  |  |          |              |  |          |  |  |
|  | 1  | 1              |            |  |  | T  |          | П            |  | П        |  |  |
|  | 2  | /              |            |  | Г  |  |          |              |  | П        |  |  |
|  | 3  | 1              |            |  | T  |  |          | Г            | Γ.   | $\Box$   |  |  |
|  | 4  | 1              | _          | T  | <del>                                     </del> | t  | <b>-</b> |              | $\vdash$   | Н        |  |  |
|  | 5  | 1              | ſ.         | <del>                                     </del> | $\vdash$   | <del>                                     </del> |          | 一            | <del>                                     </del> | Н        |  |  |
|  | 6  | /              |            | ┢  | -  | <u> </u>   |          | ├─           | $\vdash$   | $\vdash$ |  |  |
|  | 1<br>2<br>3<br>4<br>5<br>6<br>7  | .7             |            | $\vdash$   | ┢  |  |          | -            |  | H        |  |  |
|  |  | ./             | <u></u>    | <u> </u>   |  |  | -        | -            | ┢  |          |  |  |
|  | 8<br>9   | 7              | <u> </u>   | $\vdash$   | <del> </del>                                     |  | $\vdash$ |              |  | $\vdash$ |  |  |
|  | 10   | ~              | _          | $\vdash$   |  | <del>                                     </del> | $\vdash$ | -            | -  |          |  |  |
|  | 11   | ./             | <u>r —</u> | $\vdash$   | ├  | <del>                                     </del> |          | <del> </del> | $\vdash$   | $\vdash$ |  |  |
|  | 12   | Ď              | -          |  | $\vdash$   | -  | -        |              | -  | H        |  |  |
|  | 13   | 1              | r          | -  | $\vdash$   | _  |          | ├─           | <del> </del>                                     | $\vdash$ |  |  |
| -  | 1/1  | <del>-</del> / | r          |  |  | -  | $\vdash$ |              | _  | Н        |  |  |
|  | 15   | 7              | <u> </u>   | -  |  |  |          | <u> </u>     |  | $\vdash$ |  |  |
| <b></b>  | 16   | 7              | r          |  | ╁─   |  |          | —            | _  |          |  |  |
|  | 17   | 1              |            | ┢  | $\vdash$   | -  |          | -            | $\vdash$   | $\vdash$ |  |  |
|  | 18   | 7              | _          |  | $\vdash$   | $\vdash$   |          |              | ┝  | $\vdash$ |  |  |
| -  | 19   | ノレフ            | _          |  |  |  |          |              |  | H        |  |  |
|  | 20   | J              | <u></u>    | ├  | ┢  | ┢  |          |              | <u> </u>   | $\vdash$ |  |  |
|  | 21   | \              | <u> </u>   | <del>                                     </del> | ┢  |  |          | $\vdash$     | $\vdash$   |          |  |  |
|  | 22   |                |            | _  | -  |  |          | -            | $\vdash$   |          |  |  |
|  | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26 | 7              | _          |  |  |  |          |              |  | $\vdash$ |  |  |
|  | 24   | 7              | _          |  |  |  |          |              |  |          |  |  |
|  | 25   | /              |            |  |  |  |          |              |  |          |  |  |
|  | 26   | /              |            |  |  |  |          |              |  |          |  |  |
|  | 27<br>28   | <              | •          |  |  |  |          |              |  |          |  |  |
|  | 28   | <b>\</b>       |            |  |  |  |          |              |  |          |  |  |
|  | 29   | /              | _          |  |  |  |          |              |  |          |  |  |
|  | 29<br>30   |                |            |  |  |  |          |              |  |          |  |  |
|  | 31   | /              |            |  |  |  |          |              |  |          |  |  |
|  | 32   | /              |            | L  |  |  |          |              |  |          |  |  |
|  | 32<br>33   | ~              |            |  |  |  |          |              |  |          |  |  |
|  | 34   | _              |            |  |  |  |          |              |  |          |  |  |
|  | 35   | /              | _          |  |  |  |          |              |  |          |  |  |
| ļ  | 36   | 4              | <u>-</u>   |  |  |  |          |              |  |          |  |  |
|  | 37<br>38   | 4              | <i></i>    |  |  |  |          |              |  |          |  |  |
|  | 38   | 4              |            |  |  |  |          |              |  |          |  |  |
|  | 39   |                | _          |  |  |  |          |              |  | _        |  |  |
|  | 40   | -              |            |  |  |  |          |              |  |          |  |  |
|  | 41   | 7              | _          |  |  | _  | -        | $\dashv$     |  | $\dashv$ |  |  |
| <del>                                     </del> | 42<br>43   | 7              | _          |  |  |  | -        | $\dashv$     |  | -        |  |  |
| <u> </u>   | 43   | 7              | _          |  | _  |  | -        |              | -  |          |  |  |
| $\vdash \dashv$                                  | 45   | 1              | _          |  |  | $\vdash$   | $\vdash$ | -            |  | $\dashv$ |  |  |
| <del>                                     </del> | 46   | 7              |            | -  |  | -  |          |              | $\dashv$   | $\dashv$ |  |  |
| $\vdash$   | 47   | V              |            |  |  | $\vdash$   | _        | _            | $\dashv$   | $\dashv$ |  |  |
| <u> </u>   | 48   | V              |            | $\vdash$   | -  | $\vdash$   |          | $\dashv$     |  | $\dashv$ |  |  |
|  | 49   | 7              |            |  | _  | $\vdash$   |          |              |  | $\dashv$ |  |  |
|  | 50   | 7              |            |  |  | $\vdash$   | $\dashv$ | _            |  | $\dashv$ |  |  |
| ــــــــــــــــــــــــــــــــــــــ           |  |                |            |  |  |  |          |              |  |          |  |  |

| CI       | aim            | Date          |   |          |  |          |          |  |  |   |
|----------|----------------|---------------|---|----------|--|----------|----------|--|--|---|
|          | 1              |               |   |          |  |          |          |  |  | T   |
| <u></u>  | Original       |               |   |          |  |          |          |  |  |   |
| Final    | ]. <u>.</u>    |               |   |          |  |          |          |  |  |   |
|          | 0              |               |   |          |  |          |          |  |  |   |
|          | 51             | V             | 1 | $\vdash$ | <del>                                     </del> | T        | T        | l  | t  | <del> </del>  |
|          | 52             | 1             | 1 | <b>†</b> |  | +-       | t –      |  | <del>                                     </del> | $\vdash$  |
|          | 52<br>53       | 1             | 1 | $\vdash$ | <u> </u>   | ⇈        | T        | ┢  |  | <del> </del>  |
|          | 54             |               | r | †        |  | $\vdash$ | T        | $\vdash$   | ļ  | 1-  |
|          | 55             | 7             | 1 | Т        | <u> </u>   |          | $\vdash$ | †  | <u> </u>   | ┢   |
|          | 56             | 7             | T | T        | T  | <b>T</b> | ┪        | ┢  |  | $\vdash$  |
|          | 57             | /             | 1 | ┢        | $\vdash$   | T        | 1        |  | <del>                                     </del> | <del>                                     </del>  |
|          | 58             | シファ           |   |          |  |          |          | $\vdash$   |  |   |
|          | 59             | 1             |   | Τ-       |  | T-       | T        | Г  | <b> </b>   |   |
|          | 60             | 1             |   |          | T  |          | T        | T  |  |   |
|          | 61             | 1             |   |          |  | T        | T        |  | Г  |   |
|          | 62             | 1             |   | İ        |  |          | Г        | T-   |  | <u> </u>  |
|          | 63             | 1             | ┰ | <b>-</b> |  |          |          |  |  | T   |
|          | 64<br>65       | 1             |   |          | <b> </b>   |          |          |  |  | _   |
|          | 65             | 7             |   | T        |  |          | İ        |  |  | Г   |
|          | 66             | 1             |   |          |  |          |          |  | _  |   |
|          | 66<br>67       | 0             |   |          |  |          |          |  |  | T   |
|          | 68             | 1             |   |          |  |          |          |  |  |   |
|          | 68<br>69       | V             |   |          | · · ·  |          |          | _  |  |   |
|          | 70             | 1             |   |          |  | Ι.       |          |  | _  |   |
|          | 71             | 7             |   |          |  | Г        | _        |  |  |   |
|          | 71<br>72<br>73 | 1             |   |          |  |          | <b></b>  |  |  |   |
|          | 73             | 1             |   | $\vdash$ | 1  |          | <u> </u> | <del>                                     </del> |  |   |
|          | 74<br>75       | 1             | ſ |          |  |          |          |  | <u> </u>   | П   |
| $\Box$   | 75             | 1             |   |          |  |          |          |  | Г  |   |
|          | 76<br>77       | /             |   |          |  |          |          |  |  |   |
|          | 77             | 1             |   |          | Г  |          |          |  |  | П   |
|          | 78             |               |   |          |  |          |          |  |  | П   |
|          | 79             | 1             |   |          |  |          |          |  |  |   |
|          | 80             | ~             | _ |          |  |          |          |  |  |   |
|          | 81             | V             | \ |          |  |          |          |  |  | П   |
|          | 82             | 0             |   |          |  |          |          |  |  |   |
|          | 83             |               |   |          |  |          |          |  |  |   |
|          | 84<br>85       |               |   |          |  |          |          |  |  |   |
| L        | 85             |               |   |          |  |          |          |  |  |   |
| L        | 86             | L             |   |          | L  |          | L        |  |  |   |
|          | 87             | Ĺ             |   |          | L.   | _        |          | _  |  | igsqcup |
| <u> </u> | 88             | Щ             |   | L        |  |          |          |  |  | Ш   |
| L        | 89             |               |   |          |  | Щ        |          |  |  | Ш   |
| L        | 90             | Ш             |   |          |  | Ш        | Ш        | <u>_</u>   | _  | Ш   |
| <u> </u> | 91             | $\sqcup$      |   | <u> </u> |  | <u> </u> | ļ        |  |  |   |
| <u> </u> | 92             |               |   | ļ        |  |          |          |  |  | <u> </u> _  |
|          | 93             | $\sqsubseteq$ |   | <u> </u> | _  | Ш        |          |  |  | Ш   |
|          | 94             | -             |   |          |  | Щ        |          |  | _ :  | Ш   |
| <u> </u> | 95             |               |   |          | L  |          |          |  |  |   |
| <u> </u> | 96             |               |   | L_       |  | Ш        |          | Ш  |  |   |
| $\vdash$ | 97             | $\square$     |   | L        |  | $\sqcup$ |          |  |  | Ц   |
|          | 98             | _             |   | <u> </u> |  |          |          |  |  |   |
|          | 99             |               |   |          |  | $\sqcup$ |          |  |  | Ш   |
|          | 100            |               |   |          |  | لـــا    |          |  |  | <u>.                                    </u>  |

| Claim         Date           E         E           101         102           103         104           105         106           107         108           109         110           111         112           113         114           115         116           117         118           119         120           121         122           123         124           125         126           127         128           129         130           131         134           135         136           137         138           139         140           144         145           144         145           145         146           147         148           149         149   |          | i        | <u> </u>   | L        |              |  |              |              |                | J            |          |
|--|----------|----------|--|----------|--------------|--|--------------|--------------|----------------|--------------|----------|
| TE         TE< | Claim    |          |  |          |              |  | Dat          | _            |                |              |          |
| 101  |          |          | <del>                                     </del> |          | 1            | Τ  | Jal          | Ť            | Г              | T            |          |
| 101  | Final    | Original |  |          |              |  |              |              |                |              |          |
| 102  |          | 101      | <u> </u>   |          | <del> </del> | <del>                                     </del> | <del> </del> |              | -              | $\vdash$     | -        |
| 103  |          | 102      |  |          |              | Τ  | <b>†</b>     |              |                | 1            | $\Box$   |
| 106  |          | 103      |  |          |              |  |              |              |                |              |          |
| 106  |          | 104      | L  |          | <u> </u>     |  | <u> </u>     |              |                |              |          |
| 107  |          | 105      | _  | <u>_</u> |              |  | <u> </u>     | ļ            | $\vdash$       | <u> </u>     | Ш        |
| 108       109         110       111         111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       144         145       146         147       148  |          | 105      |  | ┝        |              |  |              | ├            | <b>├</b> —     | ├            | Н        |
| 109       110         111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       144         145       146         147       148  |          | 108      | _  | -        |              | <b></b>  | $\vdash$     | -            | ┢              | ╁╾           | Н        |
| 110       111         111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       144         145       146         147       148  |          | 109      |  |          |              |  |              |              |                |              | Н        |
| 114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |          | 110      |  |          |              |  |              |              |                |              |          |
| 114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  | <u> </u> | 111      |  | _        |              |  |              |              |                |              |          |
| 114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  | -        | 112      |  | _        | <u> </u>     | _  | <u> </u>     |              | ļ              | ļ            | <u> </u> |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |          | 113      |  | -        | $\vdash$     |  |              |              | <del> </del> — | <del> </del> |          |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |          | 115      |  |          | -            | $\vdash$   | ├-           | $\vdash$     |                | ┢            |          |
| 117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |          | 116      |  |          |              | -  |              |              |                | -            |          |
| 119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       144         145       146         147       148  |          | 117      |  |          |              |  |              |              |                |              | П        |
| 121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |          | 118      |  | Ĺ        |              |  |              |              |                |              |          |
| 121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |          | 119      |  | _        | ļ            |  | ļ            |              | L              | Ļ            |          |
| 122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148  |          | 120      |  |          | <u> </u>     |  |              |              | ⊢              | <b> </b>     | $\sqcup$ |
| 124  |          | 127      |  |          | _            |  |              | -            | $\vdash$       | -            |          |
| 124  |          | 123      |  | -        | <del> </del> | -  | ┢            | <del> </del> |                | -            | $\vdash$ |
| 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148  |          | 124      |  | -        |              |  | $\vdash$     | -            |                | -            |          |
| 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148  |          | 125      |  |          |              |  |              |              |                |              |          |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147  |          | 126      |  |          |              |  |              |              |                |              |          |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147  |          | 127      |  |          |              |  | <u> </u>     |              | <b> </b>       |              |          |
| 130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147   |          | 128      | -  |          | _            |  | ļ            |              | <u> </u>       |              |          |
| 131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>141<br>142<br>143<br>144<br>145<br>146<br>147   |          | 130      |  |          | _            |  |              |              |                | $\vdash$     |          |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147   |          | 131      | -  |          |              |  | _            |              |                | $\vdash$     |          |
| 133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147  |          | 132      |  |          |              |  |              |              |                |              | $\neg$   |
| 135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |          | 133      |  |          |              |  |              |              |                |              |          |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |          | 134      |  |          |              |  |              |              |                |              |          |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |          | 135      | _  |          |              |  |              |              | _              |              |          |
| 138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  | -        | 137      | _  |          |              |  | -            |              | _              |              | -        |
| 139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |          | 138      | _  |          |              |  |              |              |                | -            | $\dashv$ |
| 140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  | _        | 139      |  | _        |              |  |              |              |                |              |          |
| 142<br>143<br>144<br>145<br>146<br>147<br>148  |          | 140      |  |          |              |  |              |              |                |              |          |
| 143  |          |          |  |          |              |  |              |              |                |              |          |
| 144 145 146 147 148 148 148 148 148 148 148 148 148 148  |          | 142      |  | _        |              |  |              |              |                |              | _        |
| 145<br>146<br>147<br>148   |          | 143      | -  |          |              |  |              |              |                |              |          |
| 146<br>147<br>148  |          |          |  | -        | $\dashv$     | $\dashv$   | -            | _            | _              | $\dashv$     | $\dashv$ |
| 147<br>148   |          | 146      | $\dashv$   | $\neg$   |              | -  |              |              |                |              | $\dashv$ |
| 148  |          |          |  |          |              |  |              |              |                |              | $\dashv$ |
| 149  |          | 148      |  |          |              |  |              |              |                |              |          |
|  |          | 149      |  |          |              |  | _            |              |                |              |          |
| 150  | I        | 150      |  |          |              |  |              |              |                |              |          |